**Project**

**2024**

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“Alecu Russo” University

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# Short description

Title: "DeepWebCon - Unlocking the Secrets of the Digital Abyss"

Welcome to DeepWebCon, the premier conference dedicated to exploring the depths of the digital realm. Our event is unlike any other, as we delve into the intricacies of the Tor network and the hidden web. Join us for an unforgettable journey into the heart of anonymity, privacy, and digital freedom.

Event Overview:

DeepWebCon is a one-of-a-kind conference that brings together experts, enthusiasts, and visionaries from around the world to discuss the Tor network, dark web, and the broader implications of online anonymity. Whether you're a cybersecurity professional, a privacy advocate, a journalist, or simply curious about the hidden corners of the internet, this conference is the ultimate destination for you.

Conference Highlights:

Cutting-Edge Workshops: Dive deep into the world of Tor with hands-on workshops led by renowned experts. Learn about secure browsing, setting up your own Tor node, and exploring hidden services.

In-Depth Talks: Our lineup of speakers includes cybersecurity experts, privacy activists, and Tor project leaders. Gain insights into the latest developments in online privacy, security, and digital rights.

Ethical Hacking Challenges: Test your hacking skills in a controlled environment with our ethical hacking challenges. Discover vulnerabilities and learn how to protect yourself and others online.

Privacy and Freedom Advocacy: Explore the legal and ethical aspects of online privacy and digital freedom. Discuss the impact of Tor and the dark web on human rights and censorship resistance.

Networking Opportunities: Connect with like-minded individuals, share experiences, and collaborate on projects that promote online privacy and security.

Exhibition Area: Discover cutting-edge tools and technologies in our exhibition area. Interact with vendors and organizations dedicated to online security and privacy.

Hacktivism and Whistleblowing: Hear from activists and whistleblowers who have used the Tor network to expose corruption and injustice. Learn how anonymity can be a powerful tool for social change.

Digital Art and Culture: Explore the artistic and cultural aspects of the dark web, from underground music scenes to hidden art galleries.

Legal and Ethical Discussions: Join debates and discussions on the legal and ethical challenges of the dark web. Examine the fine line between anonymity and illicit activities.

After-Hours Events: Unwind and socialize at our after-hours events, where you can relax with fellow attendees and engage in lively discussions.

DeepWebCon is not just a conference; it's an opportunity to expand your knowledge, make meaningful connections, and become a part of a global community dedicated to preserving online privacy and digital rights.

Join us on this extraordinary journey into the hidden depths of the internet at DeepWebCon. Together, we'll unravel the mysteries of the digital abyss and empower ourselves with the knowledge to navigate it safely and responsibly.

## ToR

1. Project Overview:

This TOR outlines the requirements and objectives for the website design project. The project aims to create a user-friendly and visually appealing website for tech focusing on the sale of computer hardware, peripherals, and related products.

1. Objectives:

* Develop a modern, responsive, and mobile-friendly website.
* Improve user experience and navigation.
* Showcase tech products and services, including computers, accessories, and software.
* Increase online visibility and brand recognition.

1. Scope of Work:

* Design and development of a custom website with 5 pages, including Home, About Us, Products, Services, Blog (News), and Contact Us.
* Integration of specific features and functionalities, such as a contact form, e-commerce capabilities, product filtering options, and social media links.
* Creation of visually engaging graphics and multimedia elements showcasing products.
* Content management system (CMS) integration for easy content updates.
* SEO optimization for improved search engine rankings, focusing on relevant keywords in the tech industry.

1. Deliverables:

* Fully functional website with all specified features and pages.
* High-resolution images and graphics used in the design.
* Documentation for using the CMS to manage products and content.

1. Timeline:

The project is expected to be completed by 15.12.2024. Regular progress updates and milestones will be established throughout the project to ensure timely delivery.

1. Team Responsibilities:

Mihail’s Excalibur inc. will provide content, branding guidelines, and any necessary information.

The design and development team will execute the website creation according to the specifications outlined in this TOR.

1. Approval Process:

Meetings with the client every 2 weeks

1. Contact Information:

Vnukov Mihail [Mihail’s Excalibur inc.] +37378487277

Sergiu Chilat [University “Alecu Russo”] +37360333284

1. Confidentiality:

All project-related information and materials are considered confidential and should not be disclosed without proper authorization.

1. Terms and Conditions:

This TOR serves as a binding agreement between Mihail’s Excalibur inc. and the design and development team.

1. Amendments:

Any changes to this TOR must be agreed upon in writing by both parties.

1. Acceptance:

By signing below, both parties acknowledge their understanding and acceptance of the terms and conditions outlined in this TOR.

Client's Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Project Manager's Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Requirements

### UI/UX - Colors

Main colors:

* Neon style
* Modern style
* Pastel tones

### Browsers, devices and resolutions

Browsers:

* IE6
* Opera
* Google chrome

Devices:

* PC
* Mobile devices

Resolutions:

* PC
  + From full HD to 8K
* Mobile devices
  + Width from 300 to 600

# Web site structure

## Navigation Bar

## A good navigation bar (navbar) should be clear and easy to use. Here are some key characteristics: Simple and clear: Navigation elements should be clearly labeled. Use clear category and subcategory names.

## Responsive: The navbar should work well with Google Play on different devices. On mobile, you can use a hamburger menu to save space.

## Logical structure: Group related elements together to make it easier for users to find the information they need.

## Active element highlighting: Highlight the current page so users know where they are.

## Minimal nesting levels: Limit the number of submenu levels to avoid confusion.

## Accessibility: Make sure the navigation bar is accessible to users with disabilities using semantic markup and appropriate, contrasting colors.

## Search button: Include a search button so users can quickly find the content they need.

## Logo and homepage: Place the logo of the company that runs the homepage at the top and bottom.

## Social Media and Sitelinks: If appropriate, social media icons or important links at the end of the navigation bar.

## When creating a user-friendly navigation bar, it is important to focus on the user's user and test it to make sure it is truly user-friendly.

## Main page

### First screen - Into

Something similar to this site

[https://atehno.md](https://atehno.md/)

https://darwin.md

<https://enter.online>

1. Header and Logo: logo is located at the top of the page and links to the home page when clicked. Next to it is a navigation menu with the main sections of the site (Products, Services, About Us, Blog, Contact).
2. Banner: A large, attractive banner with images of popular products and current promotions. The banner has a short slogan reflecting the company's mission and a "Buy Now" button.
3. "Popular Products" section: A section where the best and newest products are presented with images, names, short descriptions and prices. Each product card has a "Learn More" button.
4. "Services" section: A brief overview of the services offered, such as installation, setup and maintenance of computer equipment. A link to a separate page with more detailed information.
5. Customer Reviews: A block with reviews from satisfied customers, including their names and photos. This builds trust and shows a positive user experience.
6. Blog: A section with announcements of the latest blog posts on new products, advice on choosing equipment and technology news. The "Read more" button leads to the full blog

section.

1. Newsletter subscription: A form for subscribing to the newsletter about news and promotions. Fields for entering the name and email.
2. Footer: Information about the company, links to social networks, contact details and useful links (Privacy Policy, Terms of Use, etc.).

Features:

Responsive design for correct display on mobile devices.

Fast page loading for a better user experience.

SEO optimization using keywords and meta tags.

This structure will provide an attractive and functional interface that will help increase conversions and customer satisfaction.

### Speakers

There shouldn't be too many personalities, you need to add people to your contacts for communication, and you also need to write down the numbers for technical support and customer support.

Each speaker item contains:

* Photo
* Speaker name
* Speaker position(company)

### Schedule

Something similar to this site

[https://atehno.md](https://atehno.md/)

https://darwin.md

<https://enter.online>

1. **Header:** A subheader that explains the purpose of the page (e.g. "Learn about our events, promotions, and new arrivals").
2. **Filters and sorting:** An interface that allows users to filter by category (events, promotions, new arrivals) and sort by date or popularity. This helps users quickly find the events they are interested in.
3. **Event calendar:** An interactive calendar where users can see upcoming events by date. Hovering over a date displays a summary of the events.
4. **Event list:** Below the calendar is a list of upcoming events with basic information:

* Event name
* Date and time
* Brief description
* Venue (if applicable)
* A "Learn more" button that takes users to a separate page with full details of the event.

1. **Event archive:** A section where users can view past events with links to posts or materials (photos, videos) about them.
2. **Subscribe to updates:** A form for subscribing to notifications about new events and promotions. Fields for entering name and email.
3. **Social networks and buttons:** Social network icons for sharing information about events and promotions, as well as the ability to share events via messengers.
4. **Footer:** Like the main page, contains contact information, links to the privacy policy and terms of use.

**Features:**

* Responsive design for mobile devices.
* Keyword search for quick access to the events you need.
* SEO optimization for increased visibility in search engines.

This page will be useful for users interested in events and promotions, and will also help increase customer engagement and satisfaction.

The section should present an accurate schedule, everything should be conveniently arranged and of a good size, easy to read and remember.

**Timetable**

* 09:00 – 18:30 Monday.
* 09:00 – 18:30 Tuesday.
* 09:00 – 18:30 Wednesday.
* 09:00 – 18:30 Thursday.
* 09:00 – 18:30 Friday.
* 09:00 – 16:00 Saturday.
* 09:00 – 16:00 Sunday.

Each topic item contains:

* Start time - end time

## Speakers

A convenient list of workers should be provided.

## Schedule

Beautiful and intuitive schedule.

## Partners

A list of our main partners must be indicated, all with whom the customer has the best relations.

1. Headline: A clear and attractive headline, such as "Our Partners," with a subheading that explains the importance of the partnership (e.g. "We are proud to partner with leading brands in the field of computer technology").
2. Partner Logos: A grid or carousel of the company's partner logos. Each logo should be clear and visible, with the ability to click to go to the partner's website.
3. Brief Description: Below the logos, a short text describing each partner, including:

* Company name
* Major areas of activity
* Achievements or unique offerings that make the partnership valuable.

1. Benefits of Partnership: A short block highlighting how partnerships with these companies help TechSavvy Solutions offer quality products and services, as well as improve the customer experience.
2. Partner Testimonials: Brief quotes or testimonials from representatives of partner companies confirming successful cooperation and achievements.
3. Visuals: Aesthetically pleasing design that includes graphic elements (icons, frames) to enhance perception. Use of a color palette consistent with the overall style of the site.
4. Call to Action: "Become our partner" button that leads to a page with information on how other companies can cooperate with TechSavvy Solutions.

Features:

* Responsive design for correct display on mobile devices.
* SEO optimization to increase the visibility of this section in search engines.

This section emphasizes the reliability of the company and shows that [University] works with proven players in the market, creating trust in customers.

## News

1. Objective: Provide users with relevant news related to the topic of the site.

2. Structure:

* Sector Heading: Clear and noticeable.
* News List: Brief announcements (heading, date, short text) with the ability to click for more information.
* Filters: By category, date, popularity.
* Search: Ability to quickly find news by keywords.

3. Design:

* Clean and modern: Easy to read font, convenient color palette.
* Adaptability: Optimized for mobile and tablets.

4. Functionality:

* Automatic update: Ability to automatically load new news.
* Social buttons: Ability to share news on social networks.
* Commenting: Option to leave comments for users.

5. SEO:

* Content optimization: Inclusion of keywords, meta tags and descriptions to increase visibility in search engines.

## Contact

Contacts should be only for workers in special departments: technical department, customer support department, advertising manager.

# Project duration and timelines

Project will start: 01.09.2024

Project deadline: 15.12.2024

**01.09.2024 - 31.10.2024 – Design**

1. Goals and Objectives: During the design phase, the primary goal is to create a visually appealing and intuitive interface that matches the TechSavvy Solutions brand and provides the best user experience.
2. Research and Inspiration:
   * Analyze competitors' sites and current trends in computer hardware website design.
   * Collect references and visual examples to help define the style and feel of the site.
3. Concept Development:
   * Create wireframes for key pages such as the home page, product catalog, blog, and partner page.
   * Determine the navigation structure and layout of key interface elements.
4. Visual Design:
   * Choose a color palette, fonts, and graphic elements that match the company's image.
   * Develop high-quality mockups for all pages, including banners, buttons, and icons.
5. Prototyping:
   * Create an interactive prototype to demonstrate functionality and navigation.
   * Conduct prototype testing with users to obtain feedback and identify possible improvements.
6. Iterate and Refine:
   * Make changes based on feedback, improve the user interface and fix any issues identified.
   * Prepare final versions of the design for approval.
7. Pre-Development:
   * Create specifications for developers, including a description of all interface elements, fonts used, sizes and colors.
   * Hand over all graphics and mockups to the development team for implementation.

Expected Deliverables:

* Completed mockups of all key pages.
* An interactive prototype reflecting key functionality and navigation.
* Documentation for the development team to ensure accurate design execution.

The design stage is critical to creating a high-quality and functional website that attracts and retains users.

**01.11.2024 - 07.11.2024 - Main page. Content management**

Information will be added to the site. Information will be provided by the customer.

**08.11.2024 – 15.11.2024 – Content page**

Information will be added to site page. All information about products and prices.

1. Goals and Objectives:

At the Homepage stage, the main goal is to develop an attractive and functional interface that provide easy access to key information about products and services.

1. Page Structure:

* Defining the main content blocks, including the header, banner, sections with popular products, services, customer reviews, and news.
* Creating a wireframe that will reflect the layout of the page elements and general navigation.

1. Design:

* Developing the visual style of the homepage, including the color palette, fonts, and graphic elements that match the brand.
* Creating layouts in a graphic editor (e.g. Figma or Adobe XD), taking into account UX/UI design principles to improve usability.

1. Content:

* Preparing text content for headings, descriptions, buttons, and other elements to ensure clarity and informativeness.
* Selecting high-quality images and graphics that will be used on the page to attract attention and visualize products.

1. Development:

* Programming the page using HTML, CSS and JavaScript, following web development standards.
* Integration with a content management system (CMS), if necessary, to simplify future content updates.

1. Testing:

* Conducting testing on various devices and browsers to check the correct display and functionality of the page.
* Fixing identified issues such as display errors, slow loading and problems with interactive elements.

1. Feedback:

* Getting feedback from the team and testers to make the necessary changes and improvements to the design and functionality of the page.

Expected deliverables:

* A completed main page that meets the project requirements and user expectations.
* Prepared mockups and documentation reflecting the structure and functionality of the page.

The stage of creating the main page is key to forming the first impression of the company and ensuring ease of navigation for users.

**16.11.2024 – 31.11.2024 – Database**

Must be added database. Database should be connected to the site.

1. Objectives and tasks:

At the database connection stage, the main goal is to ensure reliable and efficient storage of data required for the functioning of the website.

1. Selecting a database management system (DBMS):

* Analyzing and selecting a suitable DBMS (e.g. MySQL, PostgreSQL or SQLite) depending on the project requirements, data volume and expected load.
* Justifying the choice based on performance, security and scalability.

1. Database design:

* Creating a database schema, including defining tables, fields and their data types, as well as establishing relationships between tables.
* Developing an ER diagram (entity-relationship diagram) to visualize the database structure.

1. Creating a database:

* Setting up the server environment for the database, including installing the necessary extensions and configuring security settings.
* Write SQL scripts to create tables and perform initial database setup (e.g. create indexes, constraints, and triggers).

1. Website Integration:

* Set up the connection between the website and the database using the appropriate libraries or methods.
* Implement functionality to perform data operations such as loading and displaying products, news, and other items.

1. Testing:

* Perform testing of the connected database, including checking the correctness of queries and error handling.
* Test the functionality of website functions that depend on the database to ensure correct operation.

1. Optimization:

* Analyze database performance and optimize queries as needed (e.g. create indexes).
* Ensure data backup and recovery to protect against loss.

Expected Deliverables:

* A fully configured and functioning database.
* Database integration with the website, allowing for the necessary operations.
* Documentation of the database structure and query usage.

The database connection stage is key to ensuring the reliability and functionality of the site, allowing for efficient data management and high performance.

**01.12.2024 – 15.12.2024 – Bug fixes and code adjustments**

At this time, correct all errors and minor flaws.

1. Goals and Objectives: During the bug fixing phase, the primary goal is to identify and fix all issues and defects found during testing of the website to ensure its stable operation and high quality of user experience.
2. Bugs collection:

* Create a system for documenting the found bugs, including their description, impact, and reproduction conditions.
* Use a bug tracking tool (e.g. JIRA, Trello, or another) to organize and manage the fixing process.

1. Bugs classification:

* Categorize bugs into critical, high priority, and low priority based on their impact on functionality and user experience.
* Prioritize fixes to fix the most serious issues first.

1. Bugs fixing:

* Conduct code and logic analysis to understand the causes of bugs.
* Make changes to code or system settings to fix the identified issues.
* Refactor code, if necessary, to improve the structure and reduce the likelihood of bugs recurring.

1. Retesting:

* Retesting the fixed sections of code to ensure that the bugs are fixed and no new ones are introduced.
* Using a variety of test scenarios, including functional, regression, and user testing.

1. Feedback:

* Obtaining feedback from the testing team and, if necessary, from users to confirm that the bugs have been fixed and the site has improved.

1. Documentation:

* Updating the project documentation with all the fixes so that the team can easily track the changes and their impact on the system.
* Maintaining records of the detected bugs and their fixes for subsequent analysis and learning.

Expected Results:

* Complete elimination of the detected bugs and defects.
* Improved stability and performance of the site.
* Updated documentation reflecting all the changes and fixes.

The bug fixing phase is critical to ensuring the reliability and quality of the site, which in turn contributes to user satisfaction and the achievement of business goals.